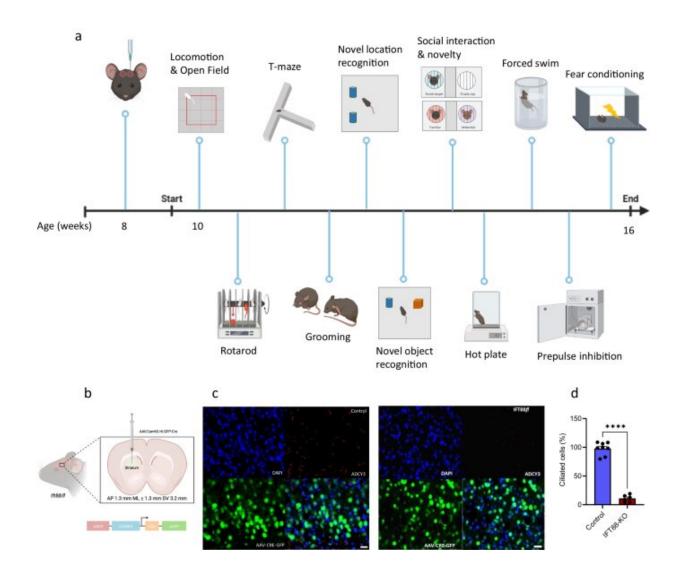


## Researchers discover crucial role of brain's striatum cilia in time perception

## November 30 2022



Selective cilia deletion in the striatum and confirmation of mice's normal gross growth and well-being. a Schematic view of experimental design and behavior assays performed and their sequence. Diagram was created with the



BioRender.com webpage. b Schematic showing bilateral viral injection into the dorsal striatum. c and d Verification of cilia removal in ciliated neurons of the striatum using immunostaining of ADCY3. Scale bar =  $10 \, \mu m$ . c Representative images of ADCY3 immunostaining showing the intact cilia in the control mice and the conditional ablation of cilia in the dorsal striatum neurons of Ift88fl mice (counterstained with DAPI, blue); d Quantification of the ciliated cells in the rostral-dorsal striatum (n = 8 control, 6 IFT88-KO). Unpaired t-test (t = 17.26, P is less than 0.0001) \*\*\*\*P

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